

Abstract of the Disclosure

~~STURMAN POWER MODULE AND METHODS OF OPERATION~~

Herein disclosed is a power module comprising an air compressor chamber,  
5 an air supply valve operable to control air flow to the air compressor chamber, a  
combustion chamber separate from the air compressor chamber, an air storage  
chamber arranged between the air compressor chamber and the combustion  
chamber, an actuating fluid common rail, an actuating fluid compressor chamber, an  
actuating fluid supply valve operable to control actuating fluid flow to the actuating  
10 fluid compressor chamber, an actuating fluid storage chamber arranged between the  
actuating fluid compressor chamber and the actuating fluid common rail, a  
hydraulically-actuatable intake valve operable to control air flow to the combustion  
chamber, and a hydraulically-actuatable exhaust valve operable to control exhaust  
gas flow from the combustion chamber. Among other things, the power module  
15 provides significantly more power output than a conventional internal combustion  
engine of similar size.

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